

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P269517

Luminaire Tested: **GLEON-AF-07-LED-E1-T4W-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-T4W-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36323.7 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

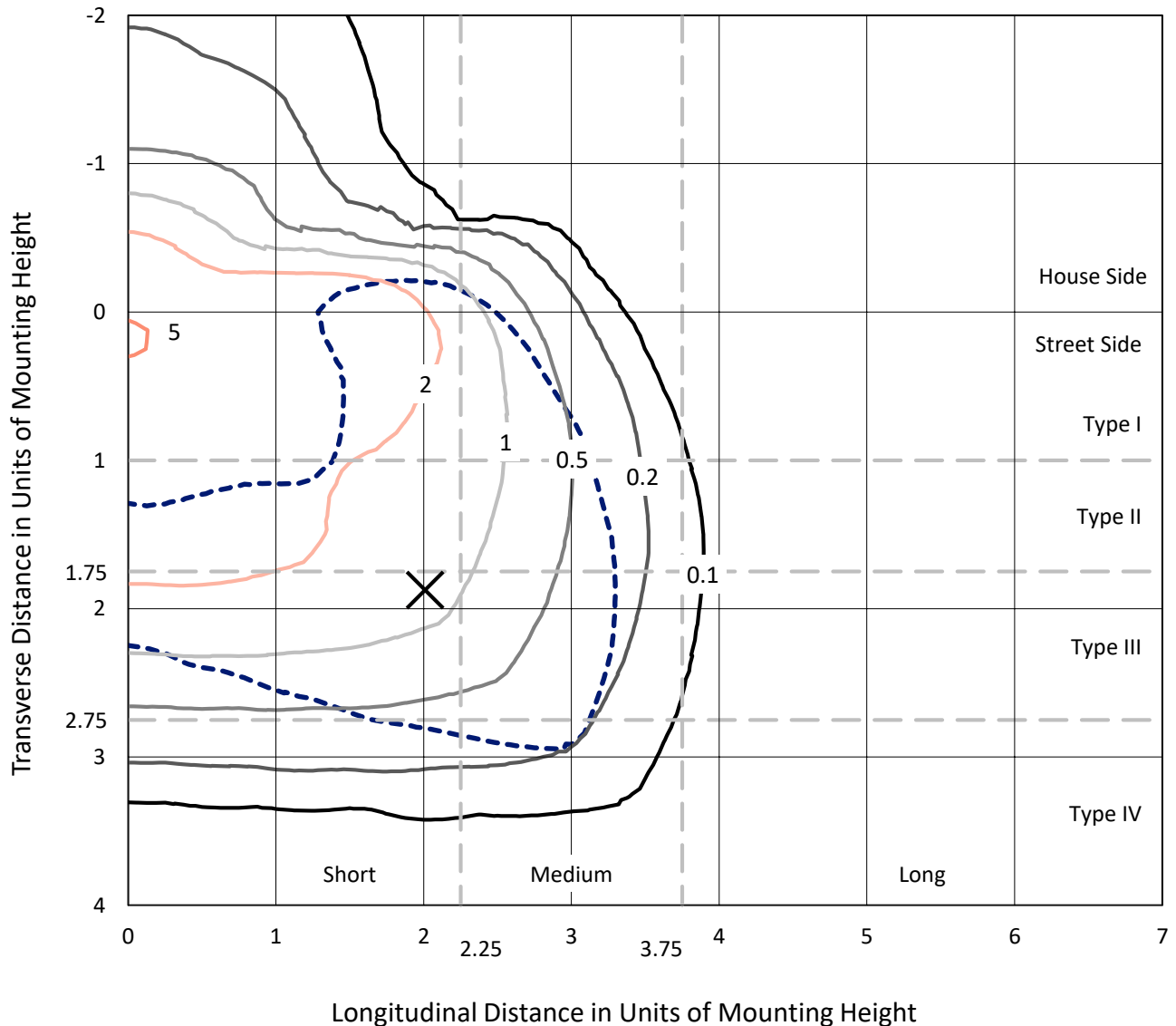
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

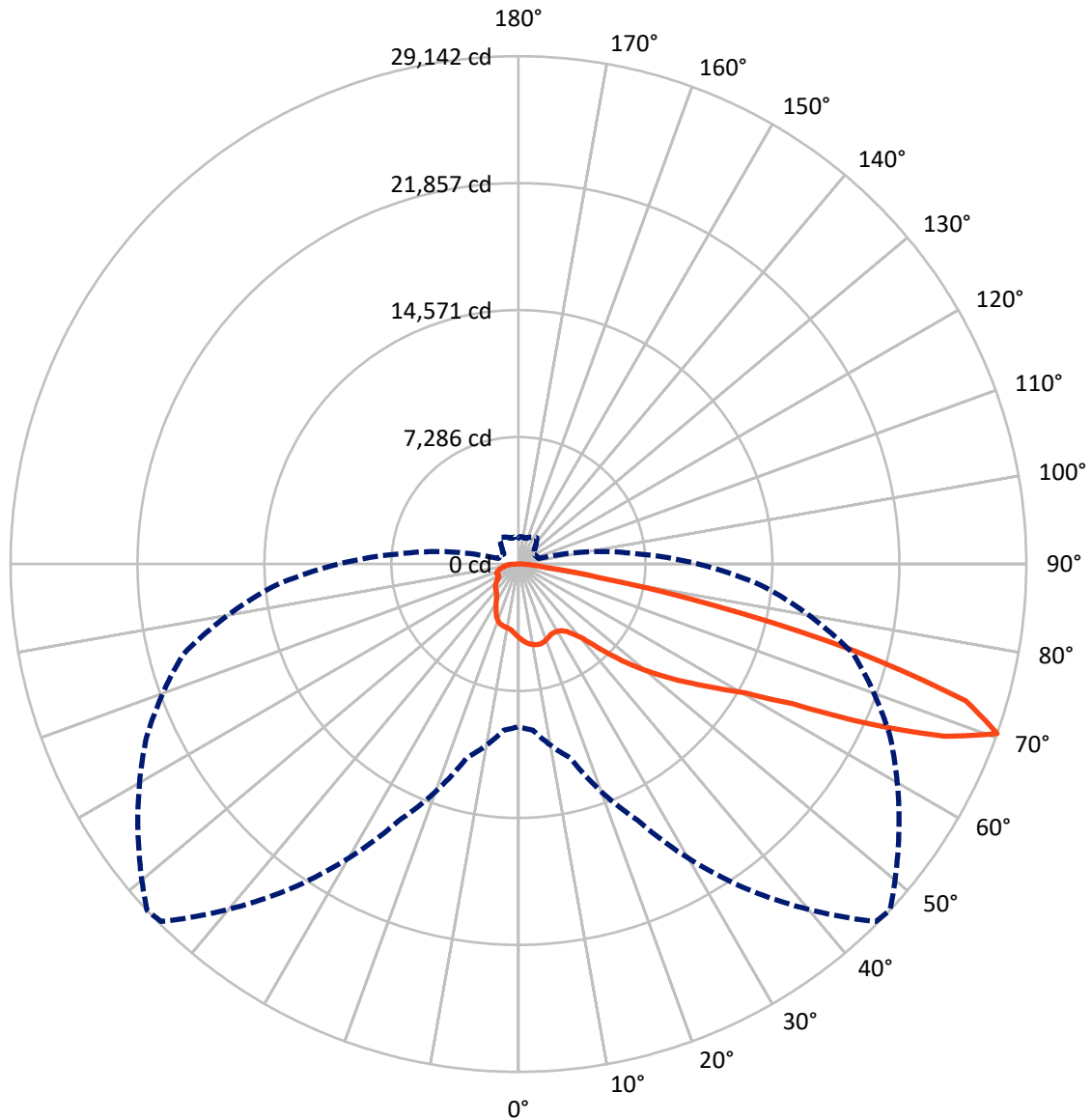
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7577.8 | 0.0 | 7577.8 |
| | % Fixture | 20.9 | 0.0 | 20.9 |
| Street Side | Lumens | 28745.8 | 0.0 | 28745.8 |
| | % Fixture | 79.1 | 0.0 | 79.1 |
| Total | Lumens | 36323.7 | 0.0 | 36323.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 403.8 | 1.1 |
| 10°-20° | 1184.8 | 3.3 |
| 20°-30° | 1749.6 | 4.8 |
| 30°-40° | 2542.9 | 7.0 |
| 40°-50° | 4576.4 | 12.6 |
| 50°-60° | 7928.2 | 21.8 |
| 60°-70° | 11315.8 | 31.2 |
| 70°-80° | 5808.9 | 16.0 |
| 80°-90° | 813.3 | 2.2 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 36323.7 | 100.0 |
| 0°-180° | 36323.7 | 100.0 |

Coefficient of Utilization



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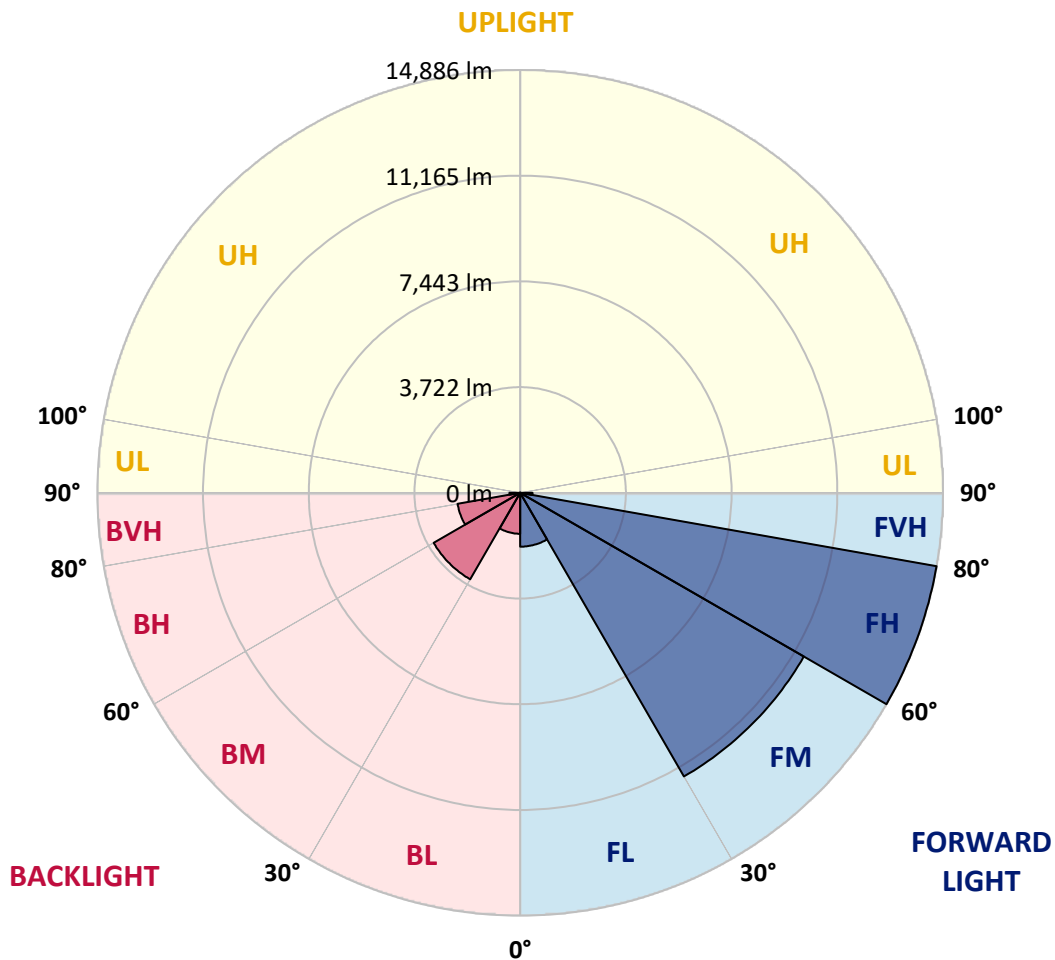
CATALOG NUMBER: GLEON-AF-07-LED-E1-T4W-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1895.3 | 5.2 | | | |
| FM | (30°-60°) | 11530.1 | 31.7 | | | |
| FH | (60°-80°) | 14886.4 | 41.0 | | | G5 |
| FVH | (80°-90°) | 434.0 | 1.2 | | | G3/500 |
| BL | (0°-30°) | 1442.9 | 4.0 | B3/2500 | | |
| BM | (30°-60°) | 3517.4 | 9.7 | B3/5000 | | |
| BH | (60°-80°) | 2238.3 | 6.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 379.3 | 1.0 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4214.7 | 4214.7 | 4214.7 | 4214.7 | 4214.7 | 4214.7 | 4214.7 | 4214.7 | 4214.7 | 4214.7 | 4214.7 |
| 2.5° | 4462.2 | 4453.3 | 4449.8 | 4442.7 | 4433.9 | 4389.6 | 4380.8 | 4349.0 | 4304.8 | 4258.9 | 4211.2 |
| 5° | 4755.4 | 4753.7 | 4734.2 | 4698.9 | 4642.4 | 4545.2 | 4522.2 | 4444.5 | 4340.2 | 4239.5 | 4138.8 |
| 7.5° | 5013.4 | 4997.5 | 4960.4 | 4889.7 | 4790.8 | 4658.3 | 4626.5 | 4518.7 | 4375.5 | 4237.7 | 4101.7 |
| 10° | 5202.5 | 5193.7 | 5112.4 | 5015.1 | 4886.2 | 4739.5 | 4702.4 | 4582.3 | 4425.1 | 4250.1 | 4080.5 |
| 12.5° | 5310.3 | 5292.6 | 5199.0 | 5082.3 | 4928.6 | 4785.5 | 4748.4 | 4626.5 | 4449.8 | 4250.1 | 4050.3 |
| 15° | 5303.2 | 5290.8 | 5197.2 | 5069.9 | 4914.4 | 4789.0 | 4755.4 | 4633.5 | 4444.5 | 4232.4 | 4011.4 |
| 17.5° | 5161.9 | 5167.2 | 5087.6 | 4962.1 | 4834.9 | 4739.5 | 4709.5 | 4596.4 | 4409.2 | 4197.1 | 3965.5 |
| 20° | 4914.4 | 4939.2 | 4886.2 | 4774.9 | 4704.2 | 4638.8 | 4619.4 | 4524.0 | 4354.3 | 4145.8 | 3916.0 |
| 22.5° | 4667.1 | 4690.1 | 4668.9 | 4575.2 | 4564.6 | 4525.8 | 4515.2 | 4446.3 | 4306.6 | 4114.0 | 3886.0 |
| 25° | 4485.1 | 4506.3 | 4502.8 | 4421.5 | 4453.3 | 4451.6 | 4442.7 | 4409.2 | 4296.0 | 4114.0 | 3891.3 |
| 27.5° | 4435.7 | 4442.7 | 4435.7 | 4361.4 | 4405.6 | 4441.0 | 4433.9 | 4428.6 | 4327.8 | 4165.3 | 3958.4 |
| 30° | 4605.3 | 4594.7 | 4539.9 | 4389.6 | 4430.4 | 4479.8 | 4472.8 | 4476.3 | 4423.3 | 4299.5 | 4108.7 |
| 32.5° | 5282.0 | 5234.3 | 5061.1 | 4638.8 | 4531.1 | 4557.6 | 4561.1 | 4619.4 | 4628.2 | 4506.3 | 4341.9 |
| 35° | 6294.7 | 6241.7 | 6017.1 | 5306.7 | 4843.8 | 4751.9 | 4751.9 | 4840.2 | 4893.2 | 4803.1 | 4704.2 |
| 37.5° | 7367.3 | 7309.0 | 7188.7 | 6232.8 | 5501.2 | 5089.3 | 5080.5 | 5142.4 | 5218.4 | 5239.6 | 5264.3 |
| 40° | 8586.5 | 8524.7 | 8558.3 | 7271.9 | 6418.3 | 5674.4 | 5548.9 | 5504.8 | 5709.6 | 5845.8 | 6043.6 |
| 42.5° | 9920.8 | 9892.6 | 9904.9 | 8429.3 | 7462.7 | 6549.2 | 6370.6 | 6142.6 | 6390.1 | 6632.1 | 7047.5 |
| 45° | 11156.1 | 11180.8 | 11168.4 | 9668.1 | 8625.4 | 7616.5 | 7427.4 | 6985.6 | 7227.8 | 7643.0 | 8319.8 |
| 47.5° | 12237.6 | 12135.1 | 12294.2 | 11021.8 | 9927.9 | 8811.0 | 8577.7 | 7985.8 | 8231.3 | 8743.9 | 9889.0 |
| 50° | 13550.6 | 13536.4 | 13303.2 | 12827.7 | 11502.4 | 10010.9 | 9705.3 | 9019.6 | 9401.3 | 10113.5 | 11866.5 |
| 52.5° | 14930.6 | 14674.5 | 14460.6 | 14232.7 | 13172.3 | 11240.9 | 10866.3 | 10049.9 | 10776.2 | 11672.0 | 14276.9 |
| 55° | 15213.4 | 15098.6 | 15363.7 | 15747.2 | 14782.2 | 12518.6 | 12082.1 | 11341.6 | 12324.1 | 13453.3 | 17056.6 |
| 57.5° | 15817.8 | 15816.1 | 16363.9 | 17047.8 | 16439.9 | 13874.0 | 13434.0 | 12902.0 | 14064.9 | 15494.4 | 20007.8 |
| 60° | 16226.1 | 16340.9 | 17358.8 | 18686.0 | 18067.4 | 15439.7 | 15035.0 | 14702.7 | 16044.1 | 17775.8 | 22757.5 |
| 62.5° | 16439.9 | 16595.4 | 17984.3 | 19350.4 | 20368.3 | 18046.2 | 17641.5 | 17162.7 | 18662.9 | 20278.2 | 24365.5 |
| 65° | 15551.0 | 15856.7 | 17887.2 | 19924.8 | 22382.9 | 22271.5 | 22089.5 | 21248.2 | 21937.5 | 22255.6 | 23784.2 |
| 67.5° | 13091.1 | 13403.9 | 15768.4 | 19389.2 | 23821.3 | 26346.6 | 26385.5 | 24948.7 | 23952.0 | 22425.3 | 19997.2 |
| 70° | 9327.0 | 9572.7 | 11528.9 | 16256.1 | 22725.6 | 29009.7 | 29142.3 | 26654.1 | 23551.0 | 19887.5 | 13971.2 |
| 72.5° | 4428.6 | 4578.8 | 6430.6 | 10580.0 | 18033.8 | 26579.8 | 26836.1 | 24476.8 | 20025.5 | 14723.9 | 7621.8 |
| 75° | 1627.5 | 1673.5 | 2173.5 | 4501.0 | 10459.9 | 19601.3 | 19903.4 | 17546.1 | 13275.0 | 7330.2 | 2903.4 |
| 77.5° | 975.5 | 1005.6 | 1219.3 | 1899.6 | 4114.0 | 11203.8 | 11650.8 | 9542.6 | 5801.6 | 2728.5 | 1427.9 |
| 80° | 682.2 | 703.4 | 874.7 | 1182.2 | 1943.9 | 4269.5 | 4667.1 | 3894.8 | 2311.5 | 1726.5 | 1039.1 |
| 82.5° | 461.2 | 471.8 | 615.0 | 798.8 | 1291.9 | 1525.1 | 1645.2 | 1731.8 | 1558.6 | 1284.8 | 659.1 |
| 85° | 302.2 | 312.8 | 417.1 | 526.5 | 821.7 | 788.2 | 805.8 | 1019.7 | 1138.1 | 873.0 | 365.8 |
| 87.5° | 173.2 | 180.3 | 250.9 | 281.0 | 402.9 | 334.0 | 337.6 | 537.2 | 728.0 | 588.5 | 222.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4214.7 | 4214.7 | 4214.7 | 4214.7 | 4214.7 | 4214.7 | 4214.7 | 4214.7 | 4214.7 | 4214.7 | 4214.7 |
| 2.5° | 4198.8 | 4175.9 | 4124.6 | 4092.8 | 4062.8 | 4055.7 | 4043.2 | 4041.5 | 4039.7 | 4039.7 | 4034.4 |
| 5° | 4105.2 | 4066.3 | 3986.7 | 3942.5 | 3905.4 | 3901.9 | 3900.1 | 3909.0 | 3912.5 | 3916.0 | 3910.7 |
| 7.5° | 4045.0 | 3992.0 | 3893.1 | 3829.5 | 3785.3 | 3774.7 | 3792.4 | 3833.0 | 3859.5 | 3870.1 | 3864.8 |
| 10° | 4007.9 | 3942.5 | 3827.7 | 3758.8 | 3721.7 | 3716.4 | 3739.4 | 3787.1 | 3841.8 | 3863.0 | 3861.3 |
| 12.5° | 3965.5 | 3891.3 | 3769.4 | 3696.9 | 3675.7 | 3686.3 | 3716.4 | 3760.6 | 3817.1 | 3850.7 | 3852.4 |
| 15° | 3923.1 | 3836.5 | 3711.1 | 3647.4 | 3638.6 | 3652.7 | 3681.0 | 3714.6 | 3758.8 | 3792.4 | 3795.9 |
| 17.5° | 3871.9 | 3781.8 | 3656.2 | 3590.9 | 3583.8 | 3590.9 | 3592.6 | 3610.3 | 3638.6 | 3670.4 | 3679.2 |
| 20° | 3817.1 | 3725.2 | 3594.4 | 3529.0 | 3497.2 | 3469.0 | 3437.2 | 3440.7 | 3449.5 | 3481.3 | 3488.4 |
| 22.5° | 3778.2 | 3686.3 | 3546.7 | 3456.6 | 3371.8 | 3286.9 | 3223.3 | 3214.4 | 3218.0 | 3244.5 | 3253.3 |
| 25° | 3781.8 | 3684.5 | 3534.3 | 3378.9 | 3193.2 | 3057.2 | 2972.3 | 2958.2 | 2956.4 | 2975.8 | 2988.2 |
| 27.5° | 3850.7 | 3753.5 | 3580.3 | 3299.2 | 2998.9 | 2797.4 | 2707.3 | 2696.7 | 2682.6 | 2687.9 | 2702.0 |
| 30° | 4004.4 | 3914.3 | 3691.6 | 3218.0 | 2788.6 | 2542.9 | 2449.3 | 2438.7 | 2419.2 | 2410.4 | 2421.0 |
| 32.5° | 4255.4 | 4181.2 | 3854.2 | 3140.2 | 2578.2 | 2325.6 | 2230.1 | 2207.1 | 2194.7 | 2184.1 | 2193.0 |
| 35° | 4672.4 | 4640.6 | 4071.6 | 3055.4 | 2392.7 | 2157.6 | 2071.1 | 2035.7 | 2018.1 | 2037.5 | 2051.6 |
| 37.5° | 5326.2 | 5343.8 | 4356.1 | 2922.8 | 2249.5 | 2046.3 | 1973.9 | 1933.2 | 1906.7 | 1922.6 | 1938.6 |
| 40° | 6252.3 | 6264.6 | 4670.6 | 2735.6 | 2125.8 | 1981.0 | 1903.1 | 1866.0 | 1828.9 | 1800.7 | 1798.9 |
| 42.5° | 7468.0 | 7342.6 | 4979.8 | 2532.3 | 1982.7 | 1940.3 | 1853.7 | 1807.7 | 1751.2 | 1673.5 | 1657.6 |
| 45° | 8910.0 | 8469.9 | 5214.9 | 2299.1 | 1821.9 | 1890.8 | 1798.9 | 1735.3 | 1647.0 | 1562.2 | 1553.3 |
| 47.5° | 10571.2 | 9680.5 | 5329.7 | 2056.9 | 1671.7 | 1818.3 | 1731.8 | 1631.1 | 1519.8 | 1477.4 | 1472.1 |
| 50° | 12599.8 | 11117.2 | 5384.5 | 1821.9 | 1541.0 | 1722.9 | 1634.6 | 1516.2 | 1422.6 | 1413.8 | 1408.5 |
| 52.5° | 14909.4 | 12845.5 | 5402.1 | 1629.3 | 1433.2 | 1599.3 | 1555.1 | 1440.3 | 1366.1 | 1373.1 | 1373.1 |
| 55° | 17327.0 | 14630.3 | 5161.9 | 1489.7 | 1334.3 | 1472.1 | 1502.1 | 1410.2 | 1348.4 | 1376.7 | 1387.3 |
| 57.5° | 19546.5 | 16211.9 | 4405.6 | 1382.0 | 1240.6 | 1374.9 | 1482.7 | 1438.5 | 1396.1 | 1510.9 | 1518.0 |
| 60° | 21250.0 | 17146.8 | 3290.4 | 1284.8 | 1171.6 | 1341.3 | 1533.9 | 1546.3 | 1556.9 | 1830.7 | 1867.8 |
| 62.5° | 21607.0 | 16835.8 | 2261.9 | 1208.7 | 1139.8 | 1369.6 | 1627.5 | 1629.3 | 1616.9 | 1807.7 | 1830.7 |
| 65° | 19969.0 | 14868.8 | 1645.2 | 1166.3 | 1113.3 | 1420.8 | 1707.0 | 1669.9 | 1588.7 | 1733.5 | 1691.1 |
| 67.5° | 15858.5 | 11202.0 | 1369.6 | 1134.5 | 1074.5 | 1417.3 | 1791.8 | 1707.0 | 1572.8 | 1698.2 | 1629.3 |
| 70° | 10293.7 | 6773.5 | 1219.3 | 1108.0 | 1028.5 | 1350.2 | 1841.3 | 1703.5 | 1526.8 | 1579.8 | 1498.6 |
| 72.5° | 5022.2 | 3028.9 | 1118.6 | 1069.2 | 980.8 | 1256.5 | 1839.5 | 1671.7 | 1479.1 | 1475.6 | 1431.4 |
| 75° | 1965.1 | 1387.3 | 1026.8 | 1010.9 | 899.6 | 1150.4 | 1790.1 | 1625.8 | 1422.6 | 1366.1 | 1350.2 |
| 77.5° | 1150.4 | 989.7 | 910.2 | 924.3 | 802.2 | 1044.4 | 1717.6 | 1546.3 | 1344.9 | 1277.7 | 1260.1 |
| 80° | 837.6 | 740.5 | 775.7 | 798.8 | 685.6 | 938.4 | 1620.5 | 1449.1 | 1258.3 | 1291.9 | 1267.1 |
| 82.5° | 537.2 | 477.1 | 629.2 | 652.1 | 570.9 | 830.6 | 1514.5 | 1346.6 | 1136.3 | 1032.1 | 1007.3 |
| 85° | 274.0 | 302.2 | 468.2 | 496.6 | 440.0 | 682.2 | 1385.5 | 1210.5 | 998.5 | 858.8 | 873.0 |
| 87.5° | 153.7 | 206.8 | 298.6 | 334.0 | 311.1 | 524.8 | 1123.9 | 998.5 | 814.7 | 662.7 | 583.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)